

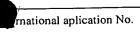
PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PCA30105/SCP	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)								
International application No.	International filing date(day/m	nonth/year)	Priority date (day/month/)	vear)					
PCT/KR2003/000414	04 MARCH 2003 (04.0	3.2003)	01 AUGUST 2002 (01.0	8.2002)					
International Patent Classification (IPC) IPC7 C08J 3/075 Applicant				04. 11. 2 5					
Applicant KIM, Hongdoo									
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total	ofsheets, incl	uding this cover she	eet.	•					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).									
These annexes consist of a total ofsheets.									
3. This report contains indications r	relating to the following items:								
I X Basis of the report									
II Priority									
III Non-establishment	of opinion with regard to novel	ty, inventive step a	nd industrial applicability						
IV Lack of unity of inv	vention								
	Perconed statement under Article 25(2) with regard to povelty, inventive step or industrial applicability.								
VI Certain documents	cited								
VII Certain defects in the	VII Certain defects in the international application								
VIII Certain observation									
				•					
Date of submission of the demand	Da	te of completion of	this report						
		•	-						
23 FEBRUARY 2004	1 (23.02.2004)	15 NOVEME	BER 2004 (15.11.2004)						
Name and mailing address of the IPEA	/KR Au	thorized officer		A MAIN					
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		SOHN, Chang F	Но	(中区代					
Facsimile No. 82-42-472-7140	Te	lephone No. 82-42	2-481-5538	MAIN					

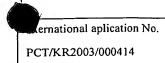




PCT/KR2003/000414

I.	Basis	s of the report						
 Į.	With	regard to the elements of the international application:*						
	X	the international application as originally filed						
	$\bar{\Box}$	the description:	, as originally filed					
		pages	, as originally filed , filed with the demand					
		pages, filed with the letter of	·					
		the claims:						
	Ш		, as originally filed					
		pages, as amended (together with any	, med with the demand					
		pages, filed with the letter of						
		the drawings:	•					
	لب	nages	, as originally filed					
		pages filed with the letter of	, med with the demand					
		the sequence listing part of the description:						
	لــا	pages	, as originally filed					
		nages	, filed with the demand					
		pages, filed with the letter of						
2.	the	the language of a translation furnished for the purposes of international search (under Rule 23 the language of publication of the international application (under Rule 48.3(b)).	which is .1(b)).					
	$\overline{\Box}$	the language of the translation furnished for the purposes of international preliminary exam	ination(under Rules 55.2 and/					
	Ш	or 55.3).						
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the interpreliminary examination was carried out on the basis of the sequence listing:								
		contained inthe international application in written form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
1		furnished subsequently to this Authority in computer readable form	around the disclosure to the					
		The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furinshed.	eyona the aisc losure in the					
		The statement that the information recorded in computer readable form is identical to the been furnished.	written sequence listing has					
4		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
		the drawings, sheets						
5	·	This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	e they have been considered to					
	in i	placement sheets which have been furnished to the receiving Office in response to an invitation we this opinion as "originally filed." and are not annexed to this report since they do not contai d 70.17).	under Article 14 are referred to in amendments (Rules 70.16					
	** An	ny replacement sheet containing such amendments must be referred to under item I and annexed	to this report.					

INTERNATIONAL PRELIMINARY EXAMINATION



V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement				
	Novelty (N)	Claims	1-27	Y	ES
	• • •	Claims	none		10
	Inventive step (IS)	Claims	1-27	Υ	'ES
		Claims	none		10
	Industrial applicability (IA)	Claims	1-27		YES
		Claims	none		NO

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for this report:

D1 : WO 9714404 A1 D2 : WO 9617591 A1

Claims 1-27 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest any of the embodiments as specifically set forth in the claims.

The invention described in independent claims 1,15,18,25 relates to a surfactant-like polymer gel, and a method for separating material using the same.

Comparing claims 1,15,18,25 with D1-D2, the subject matter of these claims differs from the teachings of D1-D2 in that a polymer gel has a surfactant-like micelle structure obtained by polymerization or condensation polymerization of an ionic surfactant and an organic or inorganic compound having polymerizable moiety at or above the surfactant's critical micelle concentration. According to the present invention, the polymer gel is capable of adsorbing and separating specific compounds in an easy recyclable manner. Thus, the problem of the prior adsorbents which are difficult to regenerate can be overcome.

Therefore, the subject matter of independent claims 1,15,18,25 is considered to be novel and to involve an inventive step; consequently, the subject matter of dependent claims 2-14,16,17,19-24,26,27 is also novel and inventive.

Claims 1-27 meet the criteria of PCT Article 33(4), IA, because the invention is industrially applicable.